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Blockchain learning: can crypto-currency methods be appropriated to enhance online learning?

Conference or Workshop Item

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oro.open.ac.uk

A talk by Peter Devine | Wednesday 9th December – 2015, 11:00am – 11:30am
ALT ONLINE WINTER CONFERENCE 2015 | altc.alt.ac.uk/online2015

– Can crypto-currency methods be appropriated to enhance online learning?

What is Blockchain?



– Can crypto-currency methods be appropriated to enhance online learning?

Blockchain: Blueprint for a New Economy

Melanie Swan



– Can crypto-currency methods be appropriated to enhance online learning?

**Bitcoin; an online currency
and payment system...**





MegaBigPower

CEO Dave Carlson inside

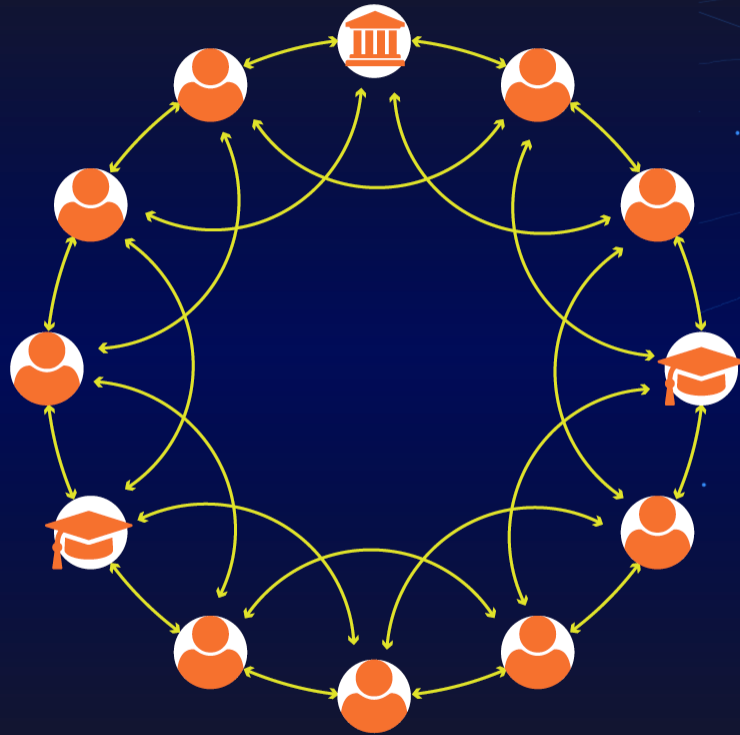
North America's biggest bitcoin
mine as of April 2014.

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1  = £261.9

Exchange rate calculated using
USD Bitcoin price via Preev.com
06 December 2015, 23.00hrs

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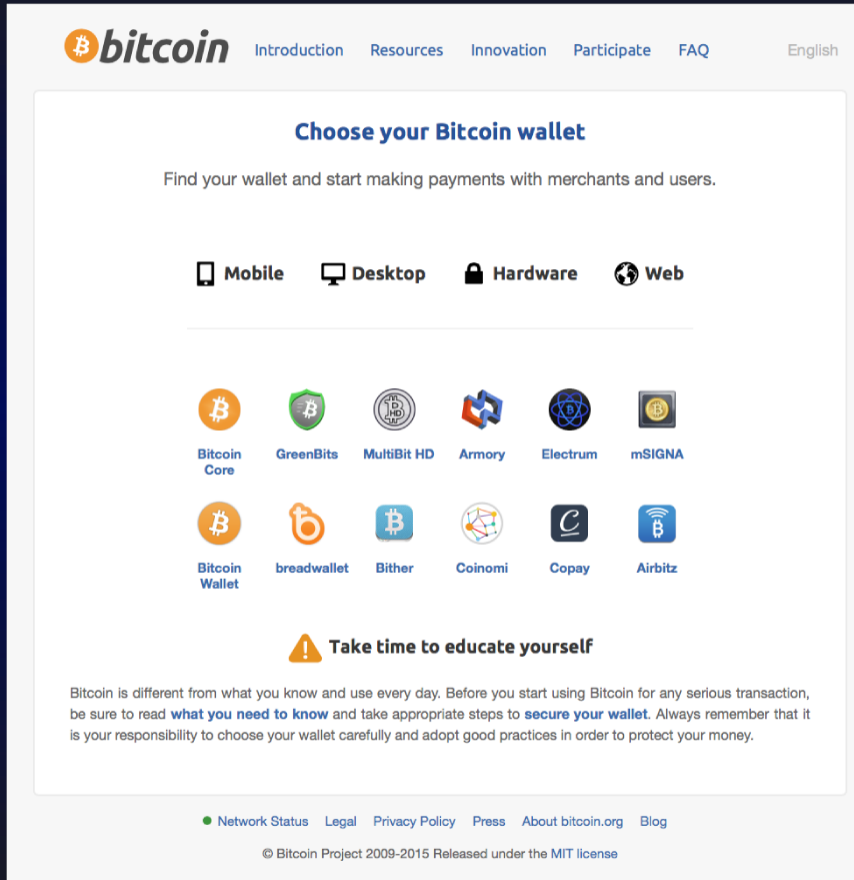


Example of a Bitcoin address:

3J98t1WpEZ73CNmQviecrnyiWrnqRhWNLy

Example of a Private key:

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The screenshot shows the Bitcoin.org website. At the top is the Bitcoin logo and navigation links: Introduction, Resources, Innovation, Participate, FAQ, and English. The main heading is "Choose your Bitcoin wallet" with the subtext "Find your wallet and start making payments with merchants and users." Below this are four categories: Mobile, Desktop, Hardware, and Web. A grid of 12 wallet logos is displayed, including Bitcoin Core, GreenBits, MultiBit HD, Armory, Electrum, mSIGNA, Bitcoin Wallet, breadwallet, Bither, Coinomi, Copay, and Airbitz. A warning icon and text "Take time to educate yourself" are present, followed by a paragraph about the responsibility of choosing a wallet. The footer includes links for Network Status, Legal, Privacy Policy, Press, About bitcoin.org, and Blog, along with a copyright notice for the Bitcoin Project 2009-2015.

Choose your Bitcoin wallet

Find your wallet and start making payments with merchants and users.

Mobile Desktop Hardware Web

Bitcoin Core **GreenBits** **MultiBit HD** **Armory** **Electrum** **mSIGNA**

Bitcoin Wallet **breadwallet** **Bither** **Coinomi** **Copay** **Airbitz**

Take time to educate yourself

Bitcoin is different from what you know and use every day. Before you start using Bitcoin for any serious transaction, be sure to read [what you need to know](#) and take appropriate steps to [secure your wallet](#). Always remember that it is your responsibility to choose your wallet carefully and adopt good practices in order to protect your money.

[Network Status](#) [Legal](#) [Privacy Policy](#) [Press](#) [About bitcoin.org](#) [Blog](#)

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What is Blockchain?

An abstract graphic on the right side of the slide, consisting of numerous small blue dots connected by thin, light blue lines, forming a complex, interconnected network that resembles a blockchain or a data mesh.

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Peter Devine – Institute of Educational Technology. The Open University

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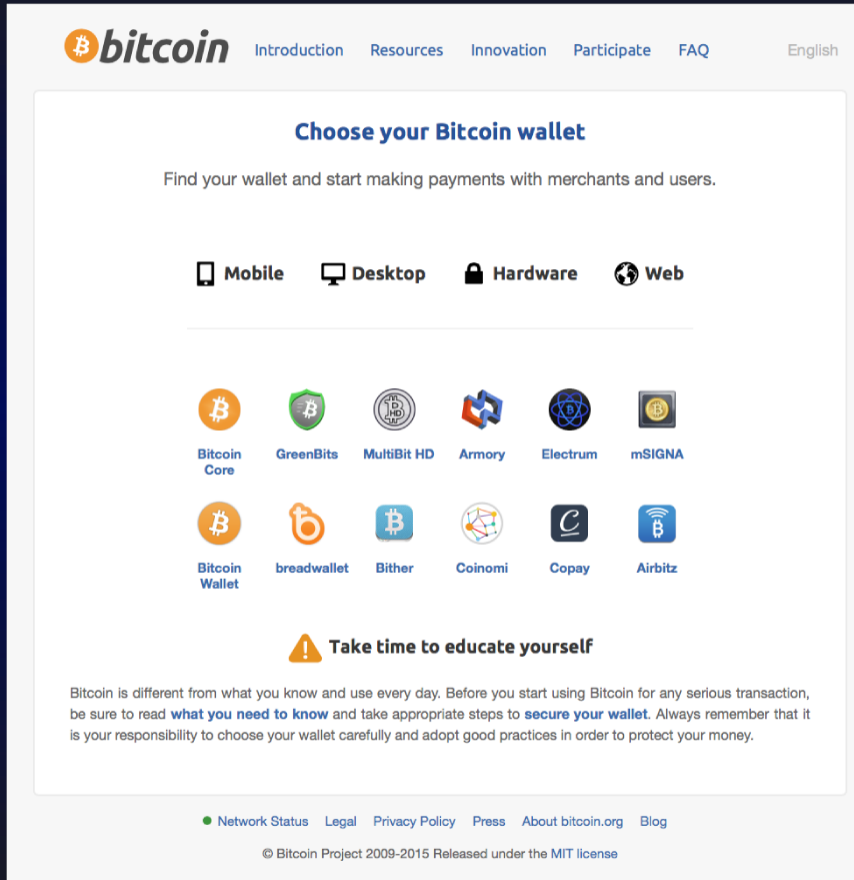
For information regarding Smart Contracts
Ethereum.org

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What is Blockchain?



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Choose your Bitcoin wallet

Find your wallet and start making payments with merchants and users.

Mobile Desktop Hardware Web

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Last block

Total BTC sent: 34801.53715851
Transaction amount: 2653
Reward: 25.71035275 BTC
Time: 16:48 04/12/2015

00:07:06

Time since last block

Selected transaction

Click on the moving transaction to select it.

bits.coinlaunch.com

Last block

Total BTC sent: 34801.53715851
Transaction amount: 2653
Reward: 25.71035275 BTC
Time: 16:48 04/12/2015

00:08:29

Time since last block

Selected transaction

Click on the moving transaction to select it.



youtu.be/kVRzIY6zhoo

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What is Blockchain Learning?



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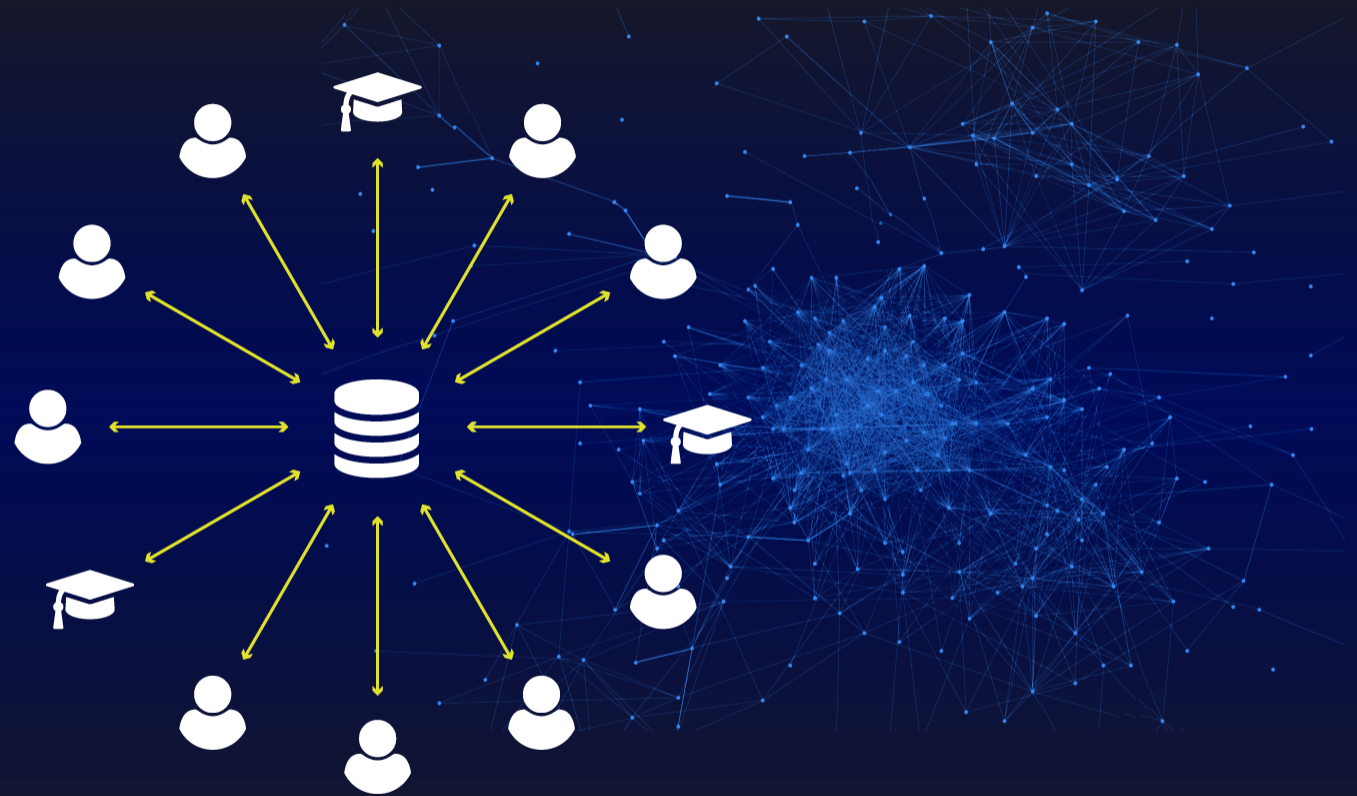
Blockchain: Blueprint for a New Economy

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Centralised



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**Income &
Expenditure = Teaching &
Learning**

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What is Blockchain Learning?



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Academic development

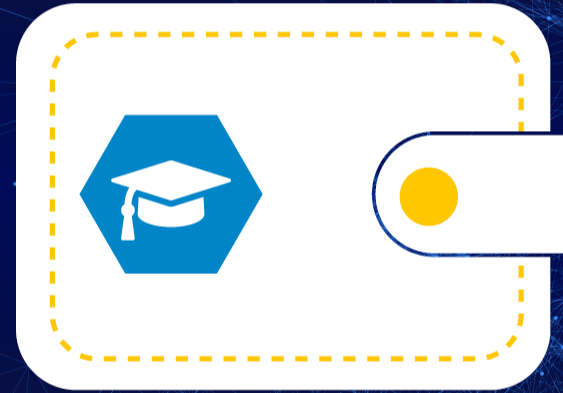


Educational finance

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ePortfolio ?



Learning Wallet ?

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What is Blockchain Learning?



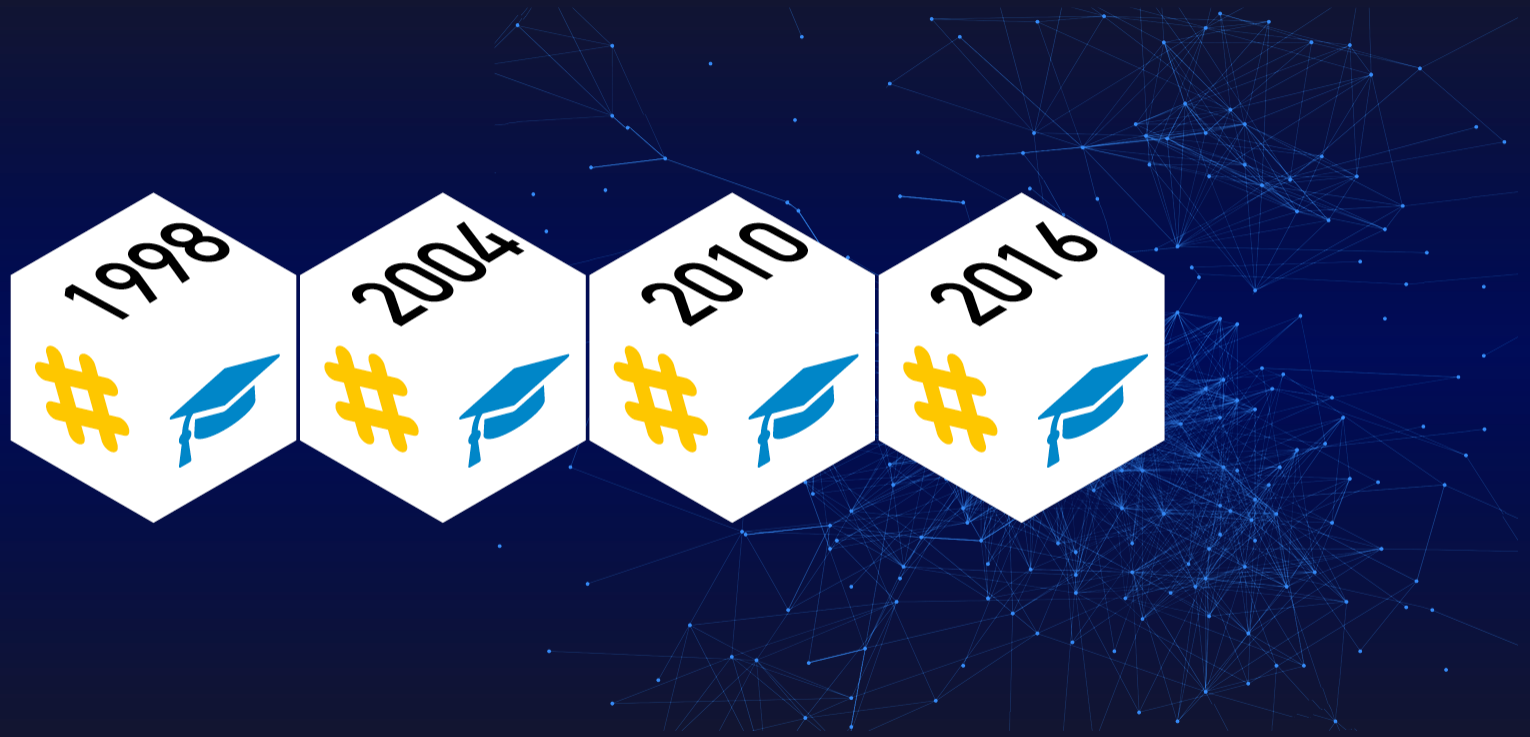
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Example 1

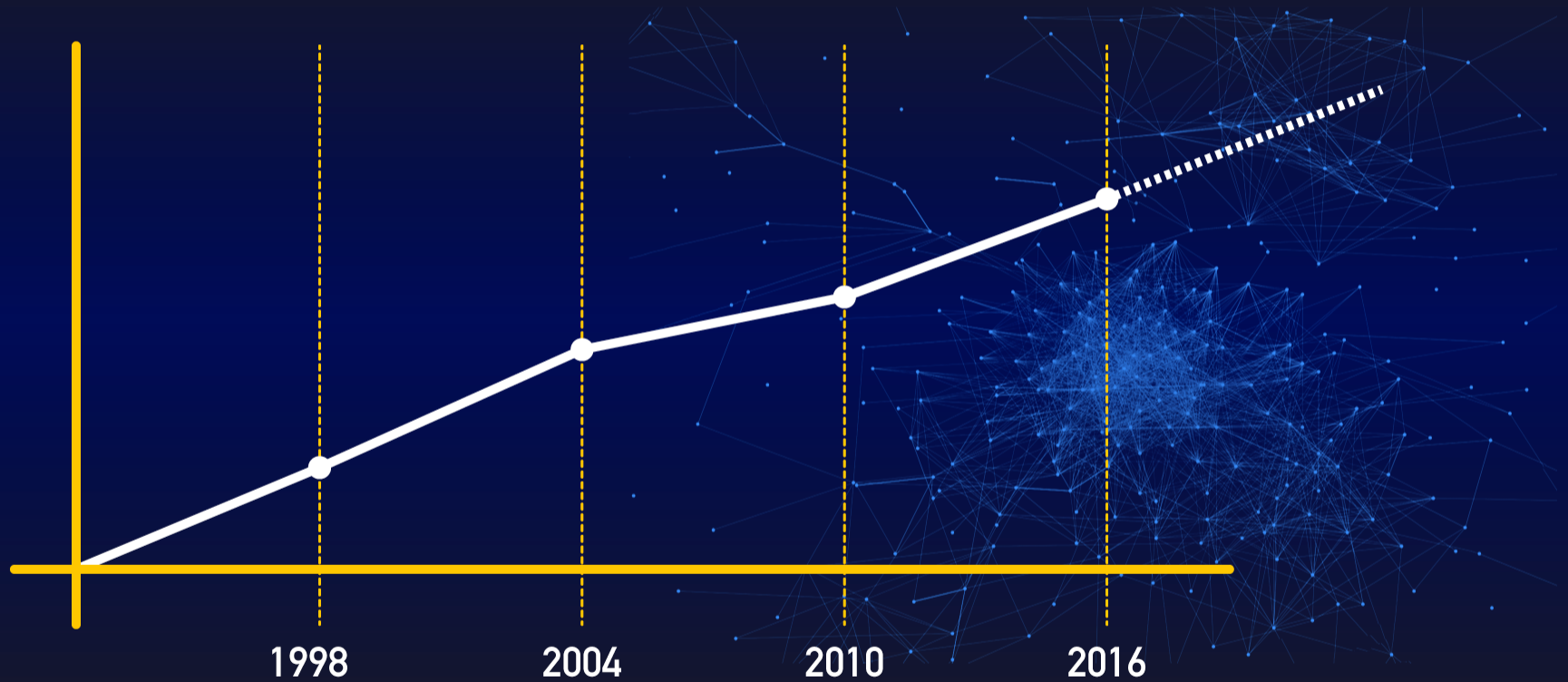
A possible application of The Blockchain
in learning and teaching –

Expose the student learning record to the public

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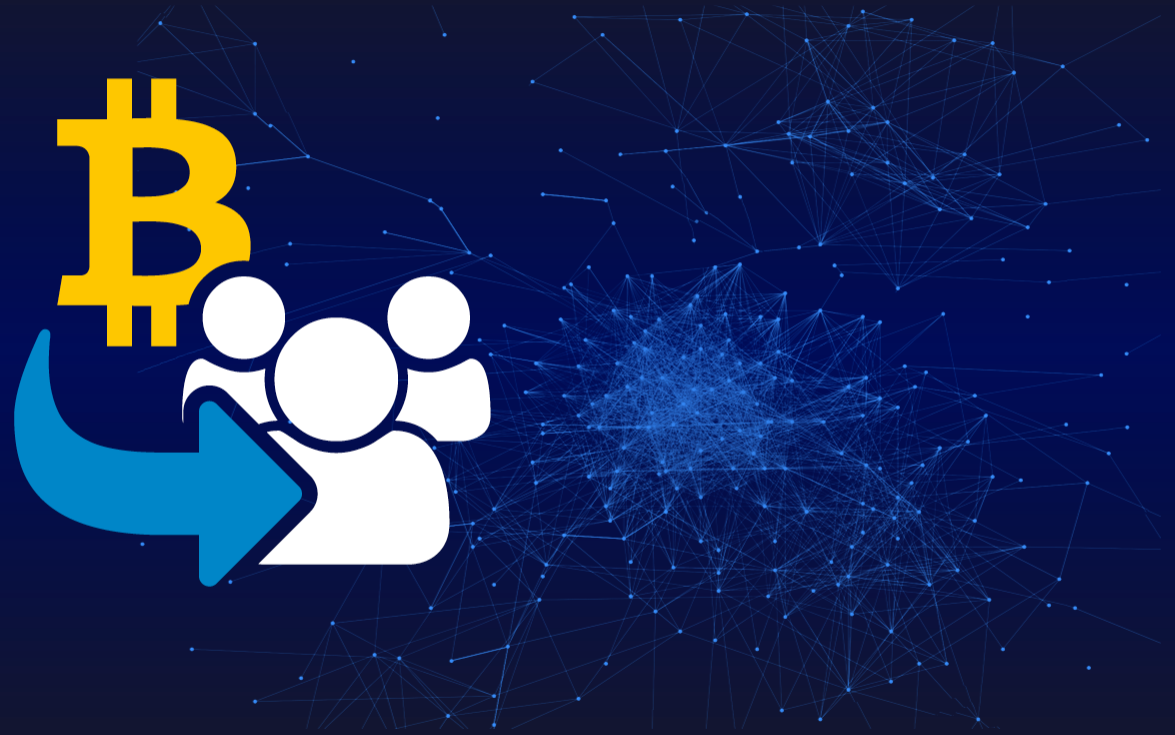
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Example 2

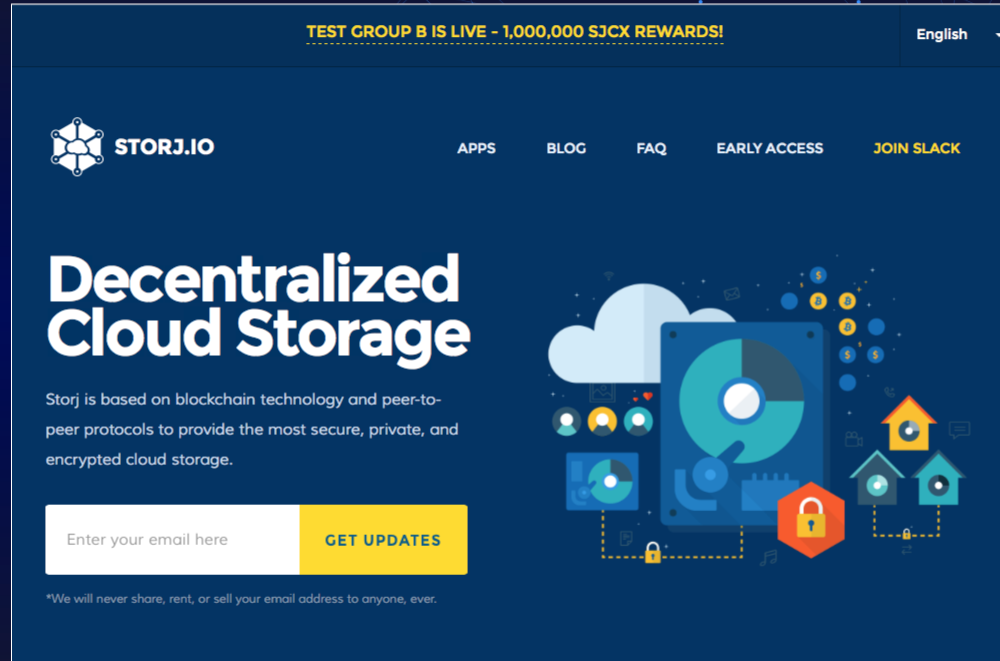
A possible application of The Blockchain
in learning and teaching –

Offsetting costs of learning using peer-to-peer network

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The screenshot shows the Storj.io website homepage. At the top, a yellow banner reads "TEST GROUP B IS LIVE - 1,000,000 SJCX REWARDS!". The navigation bar includes the Storj logo, "STORJ.IO", and links for "APPS", "BLOG", "FAQ", "EARLY ACCESS", and "JOIN SLACK". The main heading is "Decentralized Cloud Storage". Below it, a paragraph states: "Storj is based on blockchain technology and peer-to-peer protocols to provide the most secure, private, and encrypted cloud storage." There is an email sign-up form with the placeholder text "Enter your email here" and a yellow "GET UPDATES" button. A small disclaimer at the bottom reads: "*We will never share, rent, or sell your email address to anyone, ever." To the right of the text is a colorful illustration featuring a large blue hard drive, a cloud, several small houses, and various icons representing data, security, and network connectivity.

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Next steps and conclusion

